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(54) METHOD FOR DECIDING PATH

(57)Abstract:

PROBLEM TO BE SOLVED: To select an optimum path for packet transmission without reserving a band width in a communication system supporting both band width reservation connection and band width non reservation connection.

SOLUTION: The band width is not reserved in advance in the non reservation network connection. The lowest delay priority is placed onto the non reservation traffic and when a buffer in an intermediate link 209 of a network overflows, a non reservation packet is aborted. Since the data profile in the connection is burst and non decisive, links 210, 211 are not completely available for a reserved traffic except at peak. Thus, a non reservation traffic is sent when some band width is available on a link. The path selection (NRPS)(non- reserved path selection) algorithm for non-reservation connection includes steps where the weight function (modified Bellman-Ford algorithm) WR_{ij} , W' depending on both reservation traffic and non reservation traffic is used to provide a weight to each transmission link.

